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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/998,458	11/29/2001	Patrick Kusbel	UTL 00172	5670
7590 08/26/2004				
Kyocera Wireless Corp. Attn: Patent Department P.O. Box 928289 San Diego, CA 92192-8289			EXAMINER NGUYEN, SIMON	
			ART UNIT 2685	PAPER NUMBER

DATE MAILED: 08/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/998,458

Applicant(s)

KUSBEL ET AL.

Examiner

SIMON D NGUYEN

Art Unit

2685

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 May 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 10 are rejected under 35 U.S.C. 102(b) as being anticipated by DeLuca et al. (4,879,758).

Regarding claim 1, DeLuca discloses a method for reducing the effects of spurious frequencies in a communication device (abstract, fig.2), comprising: Providing a plurality of the frequency ranges (column 1 lines 28-29, column 14 line 19); selecting one of the passband frequency ranges (column 4 lines 3-40, column 12 lines 6-7); determining a clock frequency that minimizes spurious signals (column 6 lines 1-20, column 16 lines 3-5); adjusting a clock to generate a clock signal at the clock frequency; and driving a processor with the clock signal (column 14 lines 15-63, column 17 line 47 to column 18 line 19).

Regarding claim 10, this claim is rejected for the same reason as set forth in claim 1, wherein a logic device is the microprocessor having stored programs operating to reduce the spurious frequencies.

3. Claims 7-9, 13-16, 19-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Robin (5,745,848).

Regarding claim 7, Robin discloses a system for reducing the effects of spurious frequencies in a wireless communication device (abstract, figs.1,5), comprising: a microprocessor (column 8 line 24) having a reference frequency input; a clock (126) having an output (140) connected to the microprocessor input and an input (REF1) for selecting clock frequencies; a transceiver (110,120) for transceiving a plurality of selectable communication passbands (column 2 lines 38-59), wherein the clock frequency is selected to avoid harmonic frequencies (column 2 lines 1-14).

Regarding claims 13 and 19, these claims are rejected for the same reason as set forth in claim 7, wherein Robin further discloses a transceiver (110, 120) coupled to the microprocessor (114) for transceiving signals; and an antenna (108) (fig.1).

Regarding claims 8-9, 14-15, 20, Robin further discloses the microprocessor (500 of fig.5) comprises a programmable logic device (column 3 lines 29-46) and a gate array (inputs and outputs from the logic circuit 500 to other related components as shown in fig.5).

Regarding claim 16, Robin further discloses the transceiver comprises a receiver (110) (fig.1).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 17, 18 rejected under 35 U.S.C. 103(a) as being unpatentable over Robin (5,745,848).

Regarding claim 17, Robin does not specifically disclose the transceiver is a multiple transceivers.

It should be noted that it is known to those skilled in the art the Robin's system can be used in a base station wherein the base station inherently has a plurality of transceivers in order to simultaneously transceiving from a plurality of mobile transceivers.

Regarding claim 18, Robin discloses the transceiver generating a center frequency on 936 MHz, a clock signal at 13 MHz at a 72th harmonic or a center frequency on 949 MHz with a 73rd harmonic of a clock signal at 13 MHz (column 4 lines 1-22, column 6 lines 37-65). However, Robin does not specifically disclose the transceiver generating a carrier frequency having a center frequency 900 MHz, a clock signal of 19.2 MHz with a 46th harmonic at 883.2 MHz.

It should be noted that it is known to one skilled in the art at the time the invention was made to modify the Robin's transceiver with a carrier frequency having a center frequency 900 MHz, a clock signal of 19.2 MHz with a 46th harmonic at 883.2 MHZ to use in a wireless device with high frequencies in order to be used in a Bluetooth or microwave wireless devices.

6. Claims 2-6, 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over DeLuca et al. (4,879,758) in view of Robin (5,745,848).

Regarding claims 3, 5, DeLuca discloses a method for reducing spurious frequencies in a communication device (abstract, figs.2, 6-7, 11-12, 14), comprising: generating a clock signals at a clock frequency having a plurality of harmonic frequencies; generating a carrier signal at a carrier frequency; selecting (column 16 lines 4-5) and changing (column 18 lines 1-2) the clock frequency so that none of the harmonic frequencies is substantially equal to the carrier frequencies (column 12 line 8, column 13 line 62 to column 14 line 14, column 16 lines 1-5, column 17 line 47 to column 18 line 19, column 20 lines 3-29, figs.11-14). However, DeLuca does not specifically disclose the apparatus including a transmitter.

In the same field of invention, Robin discloses a controller (microprocessor) selectively adjusting a clock signal to control spurious signal interfering with the operating of transceiver's carrier frequencies (abstract, figs.1, 5, column 3 lines 29-46, column 6, column 8 lines 17-67). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have DeLuca, modified by Robin to implement in a wireless transceiver in order to improve the signal performance in the wireless transceiver.

Regarding claim 6, this claim is rejected for the same reason as set forth in claim 5, wherein DeLuca further discloses changing a carrier frequency to a second carrier frequency and changing the microprocessor clock frequency to a new clock frequency wherein the new clock frequency does not have any harmonic frequencies that are

substantially equal to the second carrier frequency (column 17 line 47 to column 18 line 19, column 20 lines 3-47).

Regarding claim 2, DeLuca does not specifically disclose the communication device providing a cellular frequency range and a PCS frequency range.

Robin discloses the same field of invention in which the teaching for minimize spurious signal by adjusting the clock signal can be implemented in a cellular system (AMPS, ETACS , NMT) (column 9 lines 24-40). However, Robin does not specifically disclose the teaching can be implemented in a PCS. It is believed that a dual-band a cellular and PCS) can be implemented in the transceiver of Robin which is known to one skilled in the art in order to improve the signal performance in a dual-band mobile transceiver.

Regarding claim 4, in the DeLuca system, Robin further discloses the transceiver generating a center frequency on 936 MHz, a clock signal at 13 MHz at a 72th harmonic or a center frequency on 949 MHz with a 73rd harmonic of a clock signal at 13 MHz (column 4 lines 1-22, column 6 lines 37-65). However, Robin does not specifically disclose the transceiver generating a carrier frequency having a center frequency 900 MHz, a clock signal of 19.2 MHz with a 46th harmonic at 883.2 MHZ.

It should be noted that it is known to one skilled in the art at the time the invention was made to modify the Robin's transceiver with a carrier frequency having a center frequency 900 MHz, a clock signal of 19.2 MHz with a 46th harmonic at 883.2 MHZ to use in a wireless device with high frequencies in order to be used in a Bluetooth or microwave wireless devices.

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Regarding claims 11-12, these claims are rejected for the same reason as set forth in claims 8-9.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Simon Nguyen whose telephone number is (703) 308-1116. The examiner can normally be reached on Monday-Friday from 7:00 AM to 4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban, can be reached on (703) 305-4385.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 306-0377.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

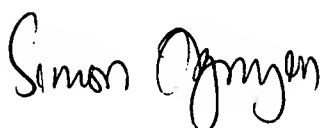
Or faxed to:

(703) 872-9314, (for formal communications intended for entry)

Hand-delivered response should be brought to Crystal Park II,
2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Simon Nguyen

August 17, 2004

A handwritten signature in black ink that reads "Simon Nguyen". The signature is written in a cursive, flowing style.